

FIG. 3

```
identification() {
  for (i = 0; i < NODES; i++) cut[i] = 0;
  topological.sort();
  search(1, 0);
  search(current.choice, current.index) {
    cut[current.index] = current.choice;
    if (current.choice == 1) {
        if (!output.port.check()) return;
        if (!convexity.check()) return;
        if (input.port.check());
        calculate.speedup();
        update.best.solution(); }
    if ((current.index + 1) == NODES) return;
    current.index = current.index + 1;
    search(1, current.index);
    search(0, current.index);
}</pre>
```

Figure 4: The identification algorithm.

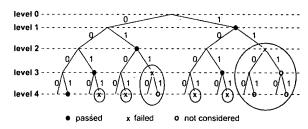


Figure 5: The execution trace of the algorithm for the graph given in Figure 2 and $N_{\rm out}=1$.

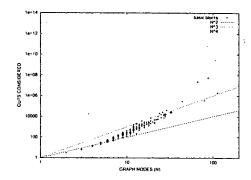


Figure 6: Number of cuts considered by the algorithm with $N_{\rm out}=2$ and any $N_{\rm in}$.

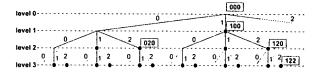


Figure 7: A search tree for two cuts.

